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INSTALLATION/OPERATION INSTRUCTIONS
U3800 MASTER STATION

DESCRIPTION

The U3800 Master Station is the heart of the David Clark Company Series 3800 Intercom System. The 3800 adjusts automatically for 12 or 24 VDC power source. It contains system on/off and volume controls, power input and a remote output, system fuse, plus 2 headset jacks.

INSTALLATION

1. Select a mounting location where the headset cord will not interfere with the operator's job function or otherwise force actions that may jeopardize safe operation.

WARNING

Caution should be taken with the U3800 when selecting a mounting position so that it's at least 2 feet away from the transmitter antenna.

2. Mount the U3800 by placing one grommet between each of the four mounting brackets and the mounting surface. Grommets are provided with the module but fasteners are not. The type of fastener selected should be based on mounting location.

3. A C3820 Power Cord, twenty feet in length, is required to connect a U3800 Master Station to it's power source. The stripped and tinned end of the C3820 incorporates a fuse holder with a 2 amp slo-blow fuse. If connecting to a vehicle's power source, consideration should be given to whether you connect before or after the ignition switch. The red wire should be connected to DC positive (power) and the black wire should be connected to DC negative (ground). Connect the two pin (male) connector of the negative (ground). Connect the two pin (male) connector of the power cord to the power input connector located on the Master Station.

NOTE: It is recommended that a Noise Suppression Kit, such as Radio Shack P/N 270-030 or equivalent, be installed on the power line to the U3800 Master Station to help prevent electrical noise from entering the intercom system. Install the filter at the point where power is derived.

4. All cords have military type screw-on connectors. Install cords as follows:

   a. Align key-way slot on cord connector with key in threaded connector on module.
   b. Insert pins into socket until firmly seated.
   c. Hand tighten swivel nut on cord connector.

5. Connect Master Station to Remote Modules using (C38-XX) Jumper Cords of desired length.

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6. Plug headsets into headset jacks and ensure connectors are fully seated.

OPERATION

1. Push the white on/off button, it will illuminate, indicating power "on".

2. Turn the system volume control knob to approximately 1/3 turn from the off position.

3. Adjust headset for a comfortable fit. Position the boom mounted microphone directly in front of your mouth, no more than 1/8 inch from your lips.

4. Speak into the microphone. If you hear yourself speaking through the earphone, you are ready to communicate. If you do not hear yourself through the earphone, check the microphone switch located on the earcup to be sure it is in the "on" position.

   Above each headset jack on the Master Station and Remote Headset Station is a headset volume control. Adjust your individual volume control to a comfortable listening level.

   Should more volume be required, increase the system volume by turning the system volume control knob clockwise.

   NOTE: To prevent ambient noise from being fed into the system during periods of no communication, press the microphone switch on the headset to the off position.

With the microphone circuit turned off, the earphone circuit remains active for monitoring of system.

SERIES 3800 SYSTEM TROUBLESHOOTING

Failure Mode	Possible Cause
No Communication	• U3800 Master Station not turned on. • Volume control turned off (a) Remote Headset Station (b) Master Station • Microphone switch on headset turned off. • Master Station fuse blown. • Power cable line fuse blown. • DC power loss.
Squeal	• Headset plug not seated in headset jack. • Headset on line, but not being worn, with push-to-talk switch locked on. Microphone is probably too close to open earphone, causing feedback.
Distortion	• System and headset volume control set too high.
Intermittent Communication	• Loose connectors
Low Volume	• Speaker's mic placement poor. • System volume control or headset volume control set too low.

CARE AND MAINTENANCE

- Headset and earseals can be cleaned with a damp cloth.
- Store components in a clean, dry area.
- Damaged components should be returned to the distributor or factory for service.